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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/698,728	10/27/2000	Uwe Konig	34651-00404USPT	6173
38065	7590 04/20/200-		EXAM	INER
ERICSSON INC.			BLOUNT, STEVEN	
6300 LEGAC			ART UNIT	PAPER NUMBER
M/S EVR C1				7
PLANO, TX	75024		2661	I
			DATE MAILED: 04/20/200	4 J

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/698,728	KONIG ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Steven Blount	2661				
The MAILING DATE of this communicat		1 1 1				
Period for Reply		·				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto. - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a reation. bys, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. (HS from the mailing date of this communication. ANDONED (35 U.S.C. & 133).				
Status						
1)⊠ Responsive to communication(s) filed o	n <u>23 December 2003</u> .					
2a) This action is FINAL. 2b)[☑ This action is non-final.					
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice t	under Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the appl	ication.					
4a) Of the above claim(s) is/are v	vithdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12 and 14-17</u> is/are rejected.	•					
7) Claim(s) <u>13 and 18</u> is/are objected to.	•					
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Ex	xaminer.					
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to b	y the Examiner.				
Applicant may not request that any objection	n to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the		• •				
11) The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for to a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International	cuments have been received. cuments have been received in Ap ne priority documents have been r	pplication No				
* See the attached detailed Office action fo	• • • • • • • • • • • • • • • • • • • •	eceived.				
Attachment(s)						
I) ☑ Notice of References Cited (PTO-892) ☑ ☑ Notice of Draftsperson's Patent Drawing Review (PTO-9	4) LInterview Su Paper No(s)	ımmary (PTO-413) /Mail Date				
Paper No(s)/Mail Date <u>4.5</u> .		ormal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Objections

1. Claim 9 is objected to because of the following informalities: in line 6, the examiner believes the comma should be removed and placed after the word VCI in line 7 instead.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 12 and 14 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art (hereinafter referred to as AAPA) in view of either one of "The Concept of Virtual Paths and Virtual Channels in ATM-Networks" by Schneider (1990); or, in the alternative, European Patent Application EP 910224 to Nishikado.

With regard to claim 1, AAPA teaches that it is well known to take an ATM cell with a given VPI/VCI identifier and swap (ie, "perform an operation") this value for an outgoing VPI/VCI identifier based on a tabulated set of incoming VPI/VCI values stored in a table in the node's memory, wherein the table is searched until the "given VPI/VCI identifier" matches up with a second, "tabulated, incoming VPI/VCI" value (page 3, lines 2+ of the specification. See page 4, third paragraph and also page 5, third paragraph).

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AAPA does not however teach storing the VPI/VCI value of the cell in a memory, or searching a "plurality of subtables simultaneously".

In Schneider, page 66, right hand column, last line, it is stated that "The evaluation of the VCI and VPI fields forms an address into a special look-up table". The examiner believes that one of ordinary skill in the art would recognize that evaluating VCI and VPI fields in this manner is done while stored in a memory. Further, Schneider also teaches, on page 67, right hand column, line 6, that the VPI/VCI table is searched in "blocks" within the CAM: "To build blocks within the CAM to search one place after another. The search is done in parallel for all blocks. This seems to be a feasible solution for building up a CAM with the required searching speed".

Likewise, in Nishikado, in column 21, lines 28+, it is stated that the packet is temporarily stored in "memory" (connection identifier transformation mechanism 5, see figure 2), and that the switch table 4 has a pair of VPI/VCI used as the identifying values in the table (connection identifiers) as described in col 2, lines 45+, and that parallel searching is performed (col 24 lines 8+).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have searched the VPI/VCI table of AAPA for the VPI/VCI value located in the ATM cell and temporarily stored in a computer memory by subdividing the table and then searching the subtables simultaneously (ie, in parallel), in light of the teachings of either Schneider or Nishikado, in order to provide a faster method of switching the ATM cell.

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With regard to claims 2 - 3, note the swapping operation discussed above and in

AAPA.

With regard to claims 4 - 5, see the discussion of the computer memory and the

swapping operation discussed above.

With regard to claims 6 – 8, note the discussion of the VPI/VCI pairs on pages 5

– 6 of AAPA.

With regard to claims 9 - 12, see the rejections above.

With regard to claims 14 – 17, see the rejections above, and further note the

discussion of network nodes and customer premise nodes on page 2 of the

specification.

Claims 13 and 18 are objected to as being dependent upon a rejected base 4.

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

5. Steven Blount may be reached at 703-305-0319 Monday through Friday between

the hours of 9:00 and 5:30.

SB